

**Method and system for caching fragments
while avoiding parsing of pages that do not contain fragments**

1/28

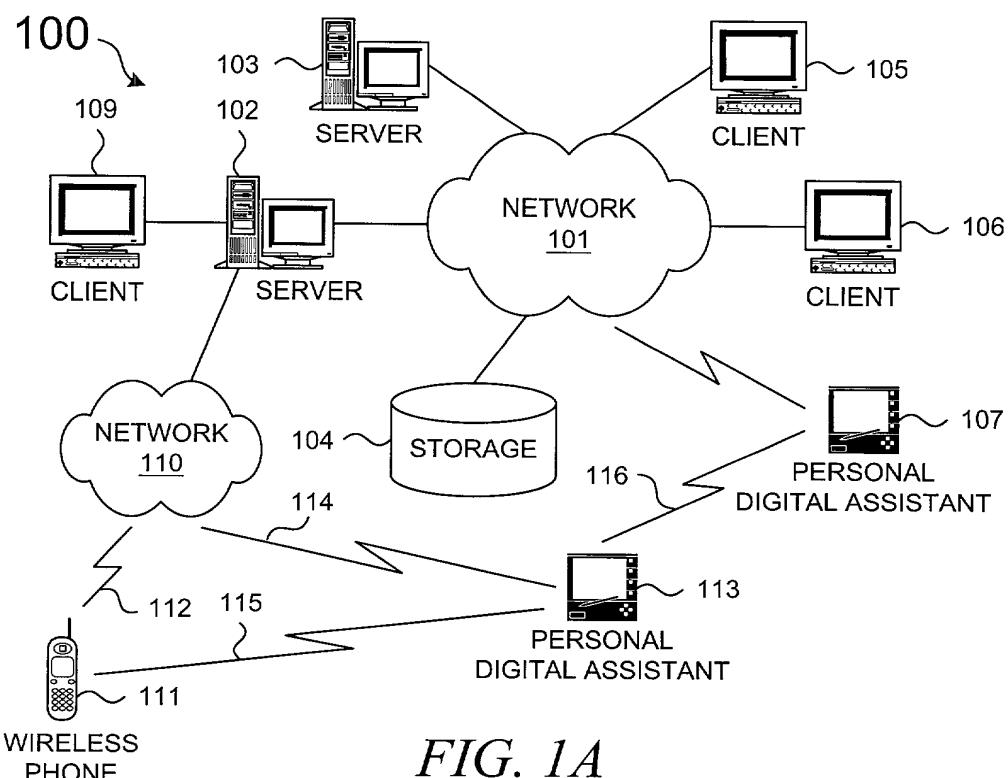


FIG. 1A
(PRIOR ART)

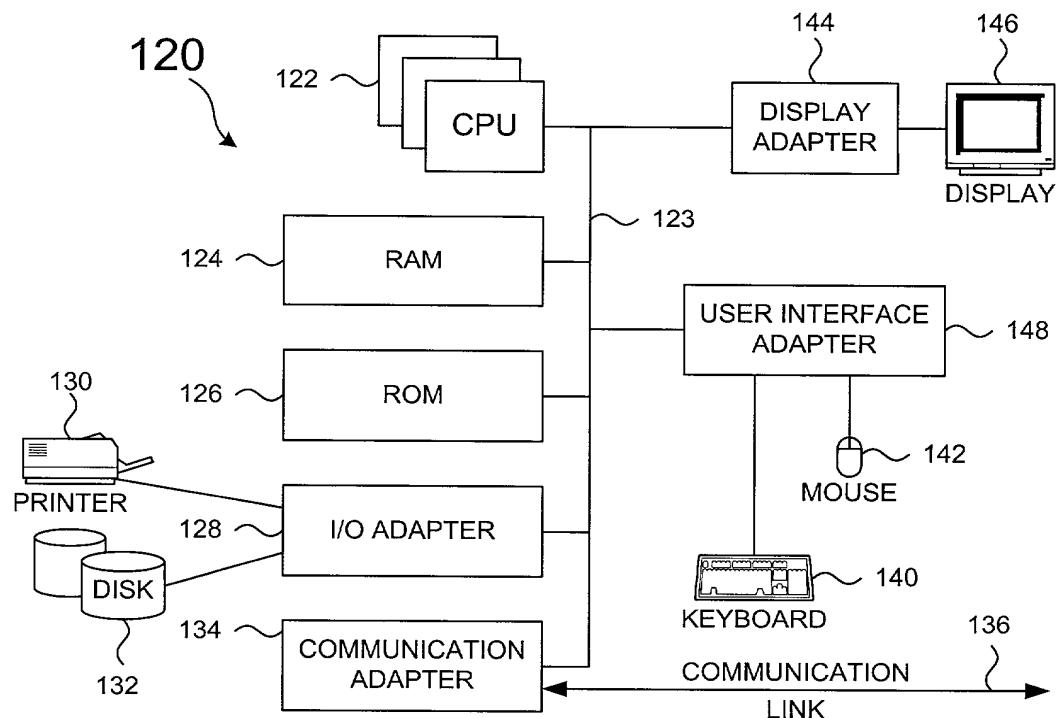


FIG. 1B
(PRIOR ART)

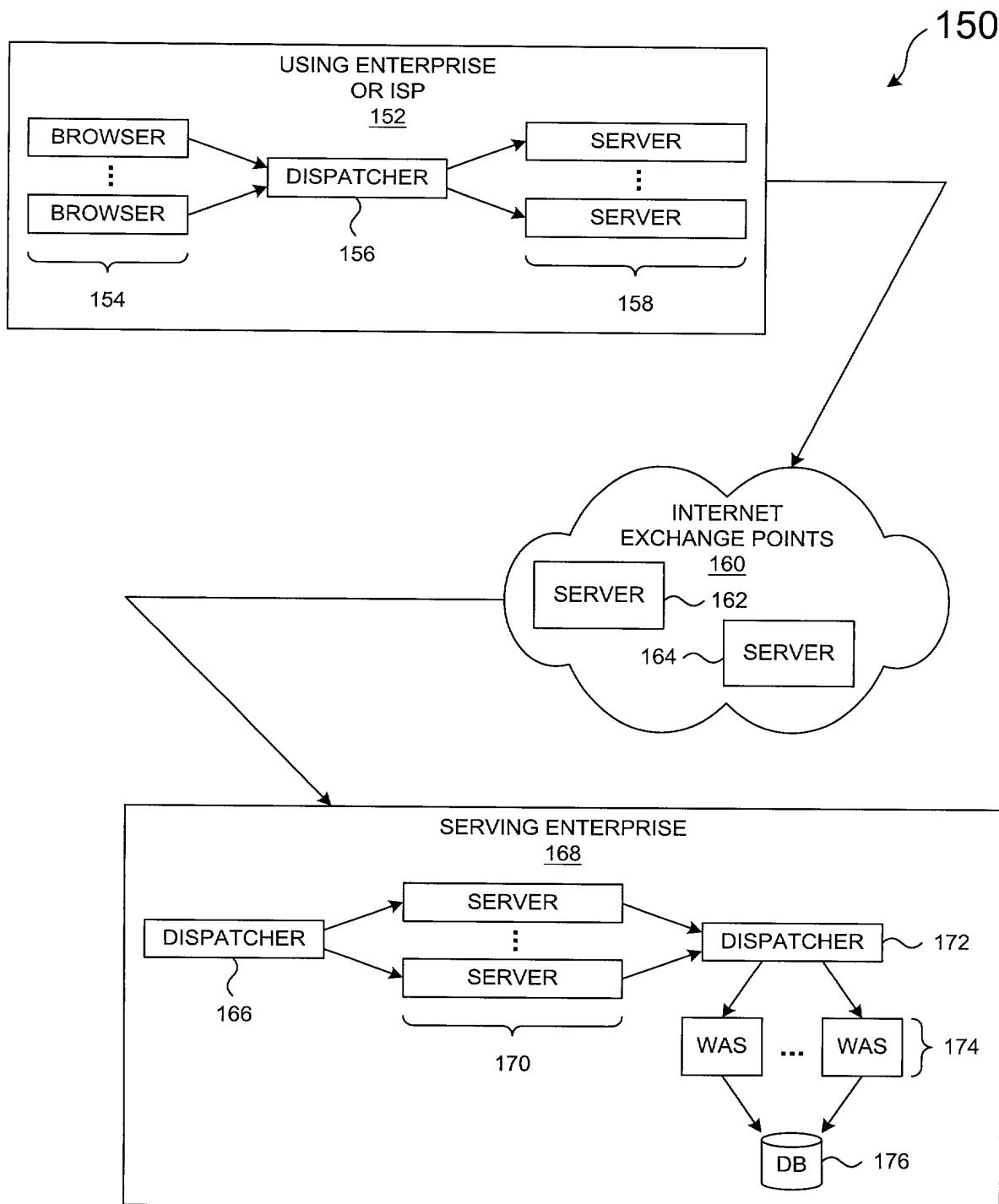


FIG. 1C
(PRIOR ART)

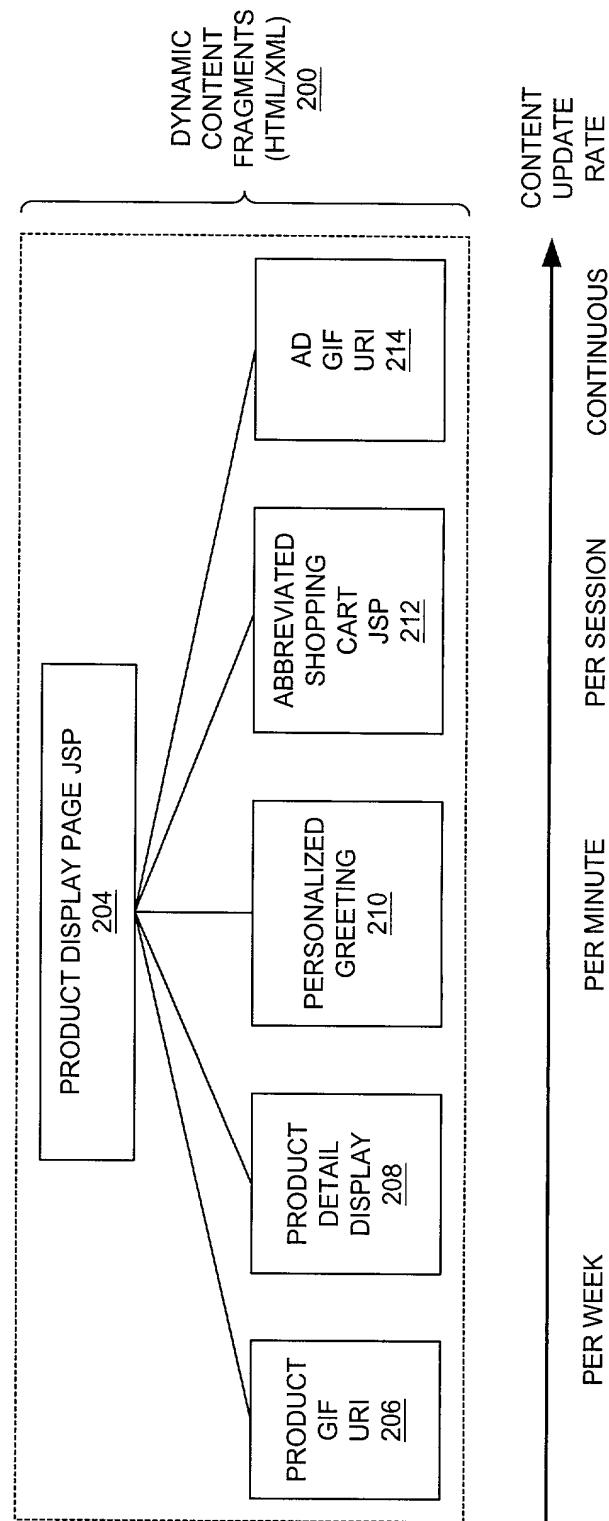


FIG. 2

Atty. Docket # AUS920010792US1
Agarwalla et al.
Method and system for caching fragments
while avoiding parsing of pages that do not contain fragments

4/28

```
<!ELEMENT FRAGMENTLINK - O EMPTY -- fragment directive -->
<!ATTLIST FRAGMENTLINK
src      %URL      #REQUIRED -- primary URL of the fragment
alt      %URL      #IMPLIED   -- alternate URL of the fragment
parms    %parmplist #IMPLIED   -- query parms applied to src
foreach  %string   #IMPLIED   -- name of cookie used for
                  -- foreach processing
showlink no|comment|CDATA #IMPLIED
                  -- whether this fragmentlink tag should be included as a
                  -- comment in the assembled page
id       ID        #IMPLIED   -- unique name of this element
class    CDATA     #IMPLIED   -- class name of this element
>

<!ENTITY % parmplist "CDATA"
-- Space delimited list of form element names
-->
```

Start tag: required; End tag: forbidden.

FIG. 3

```
Fragment = "Fragment" ":" 1#fragment-directive

fragment-directive . = fragment-request-directive
                      | fragment-response-directive

fragment-response-directive = "contains-fragments"
                             | "dependencies" "=" quoted-list
                             | "cacheid" "=" rulelist

fragment-request-directive = "supports-fragments"

quoted-list = <"> 1#string <">

rulelist = <"> 1#cacherule <">

cacherule = "(" parmrule ["," cookierule] ")" | "URL"

parmrule = 1#parmname
parmname = string | "[ " string " ]"

cookierule = 1#cookiename
cookiename = string | "[ " string " ]"
```

FIG. 4

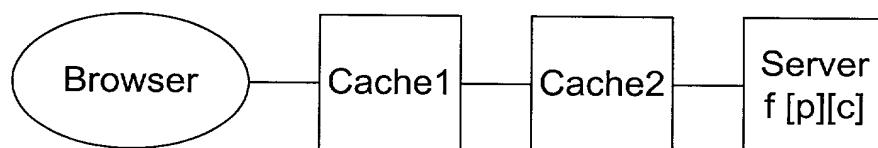


FIG. 5A

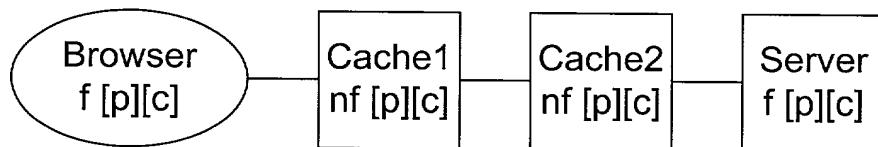


FIG. 5B

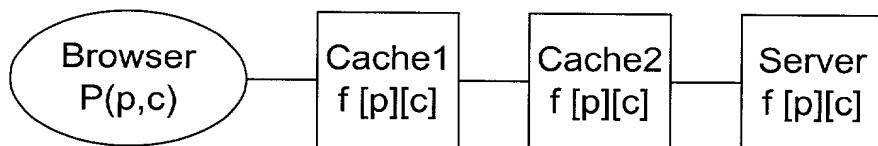


FIG. 5C

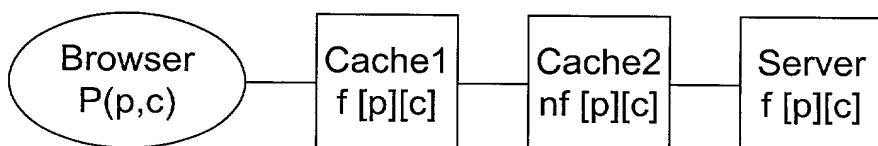


FIG. 5D

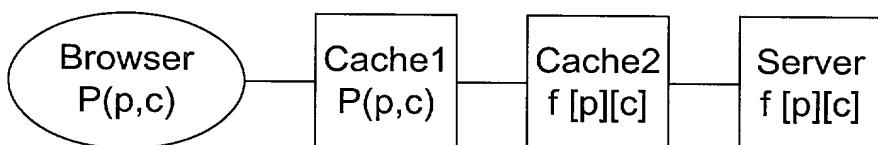


FIG. 5E

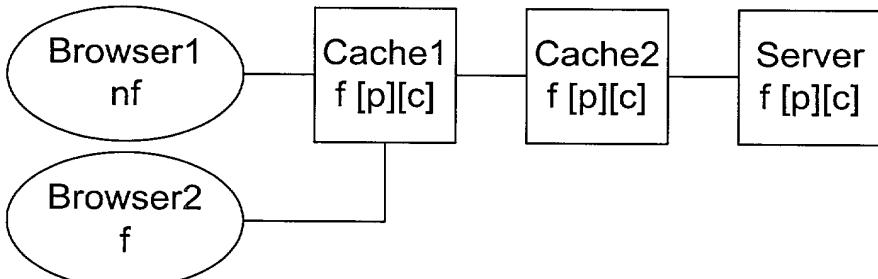


FIG. 5F

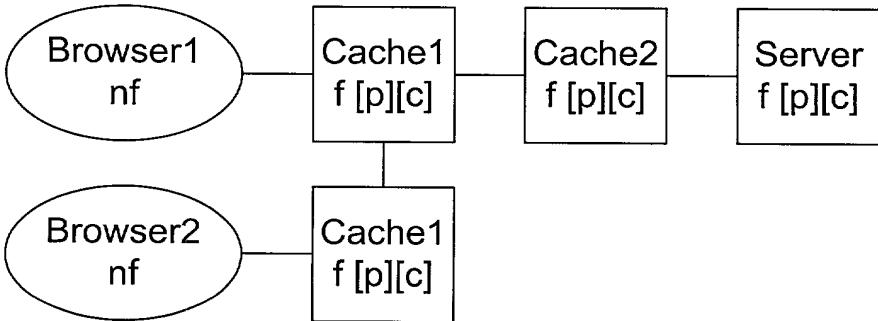


FIG. 5G

6/28

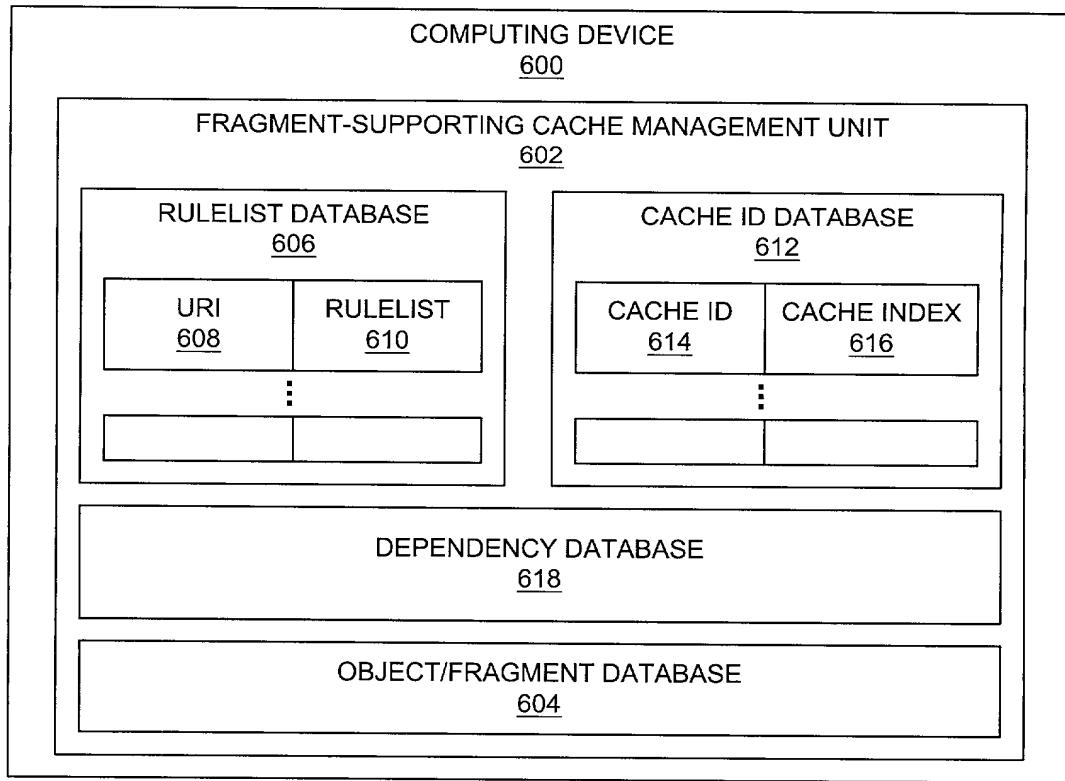


FIG. 6A

7/28

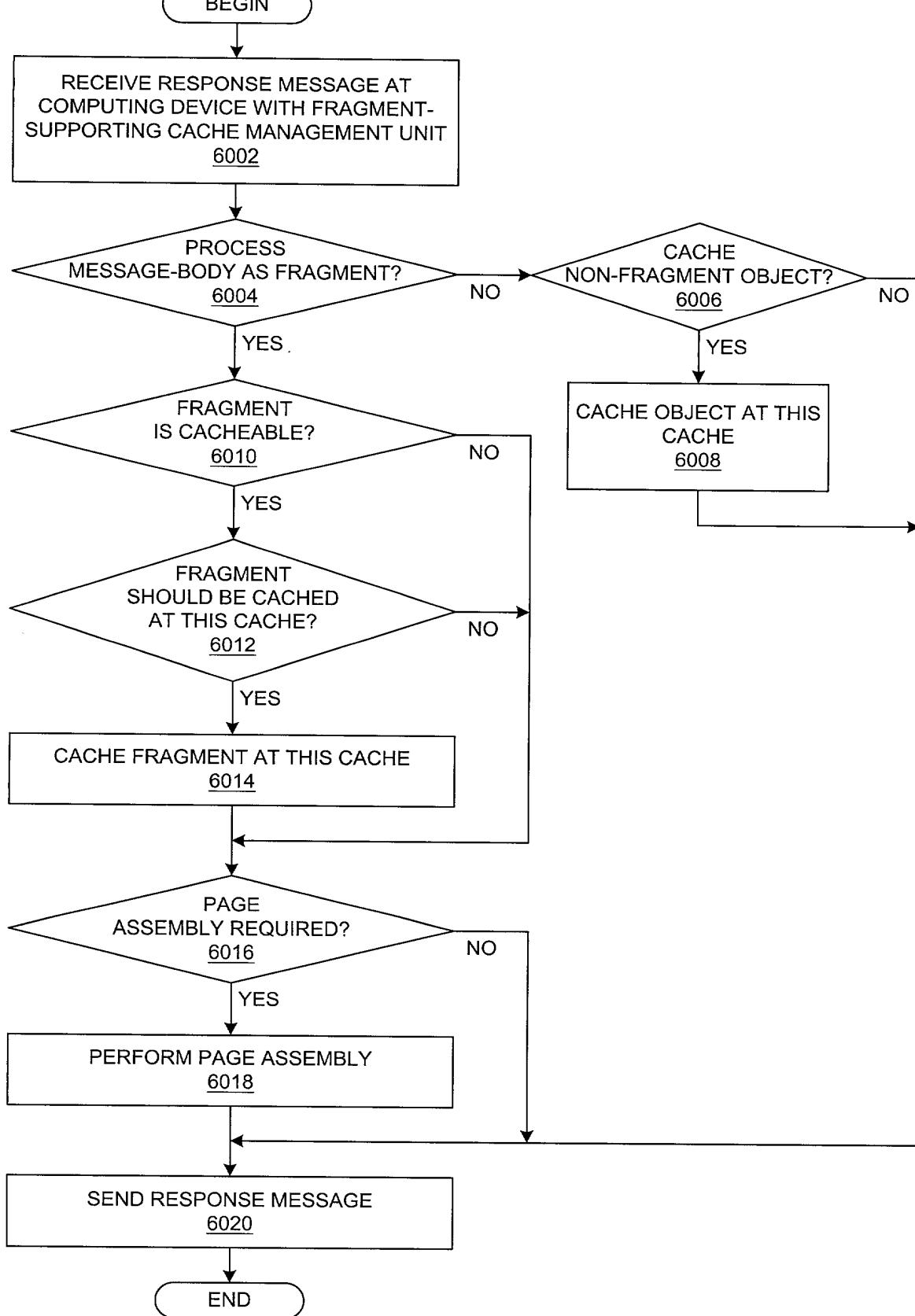


FIG. 6B

8/28

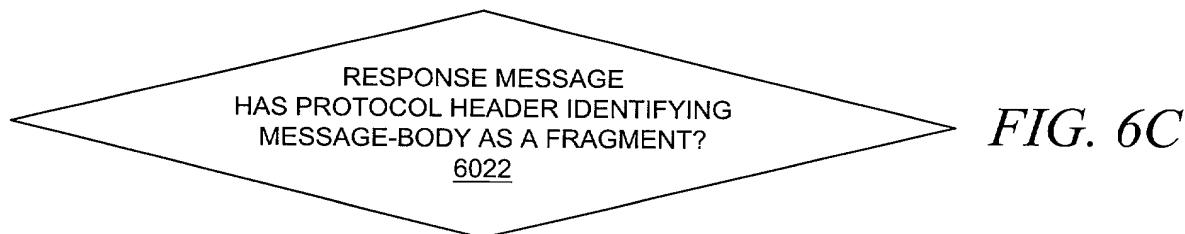


FIG. 6C

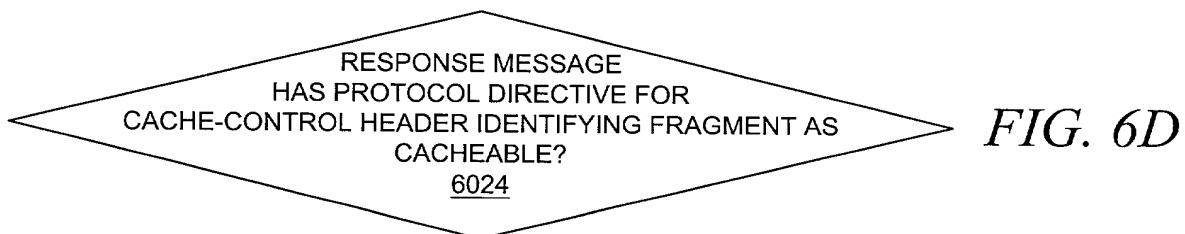


FIG. 6D

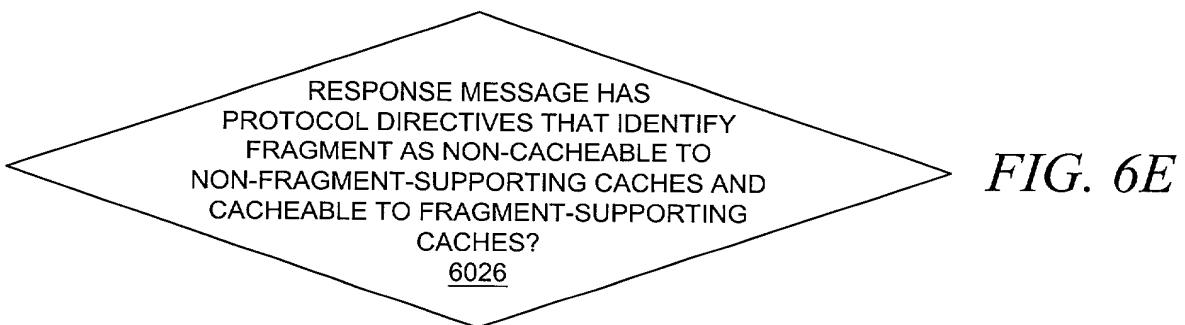


FIG. 6E

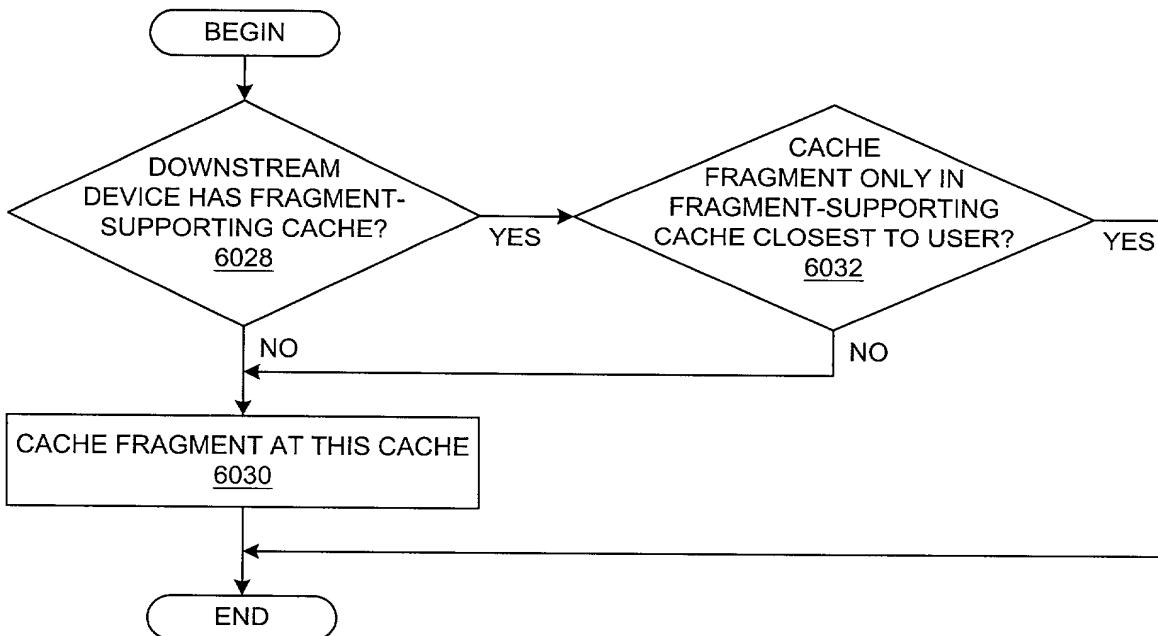


FIG. 6F

9/28

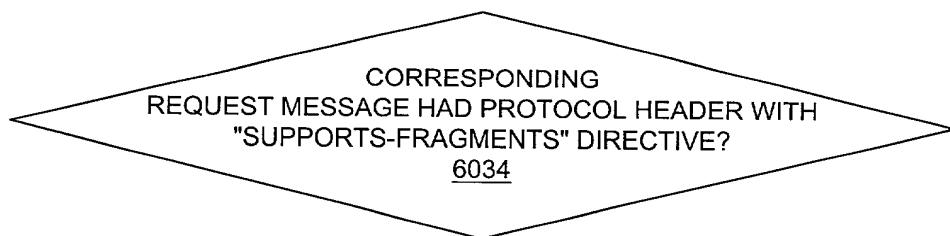


FIG. 6G

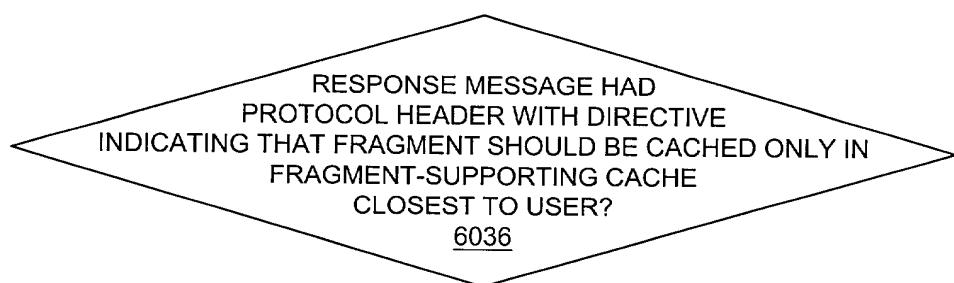


FIG. 6H



FIG. 6I

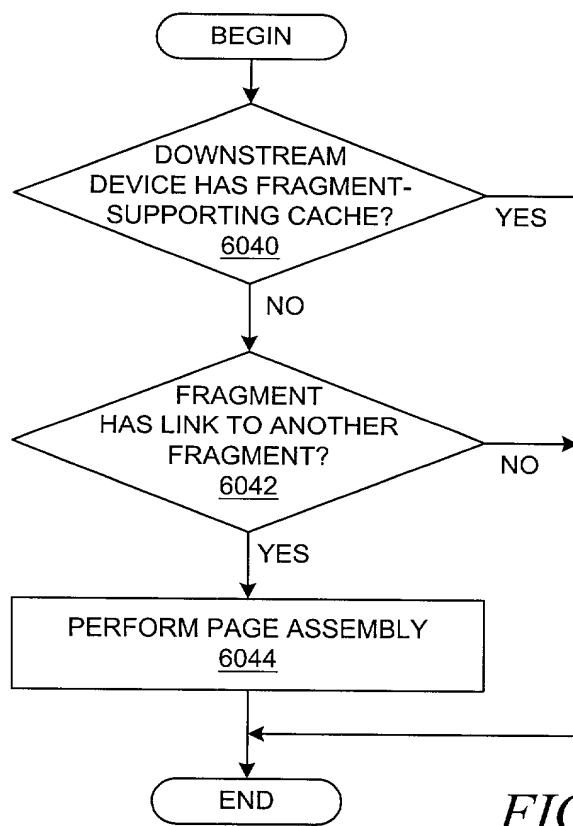


FIG. 6J

10/28

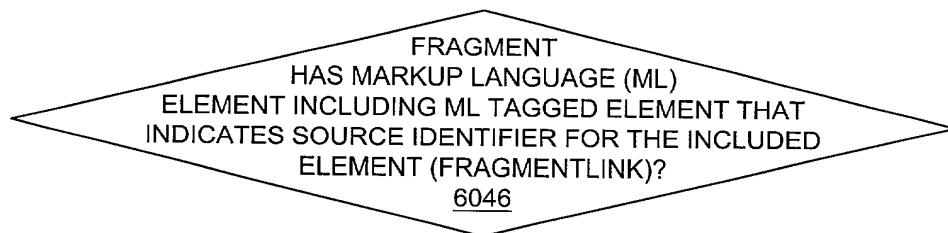


FIG. 6K



FIG. 6L



FIG. 6O

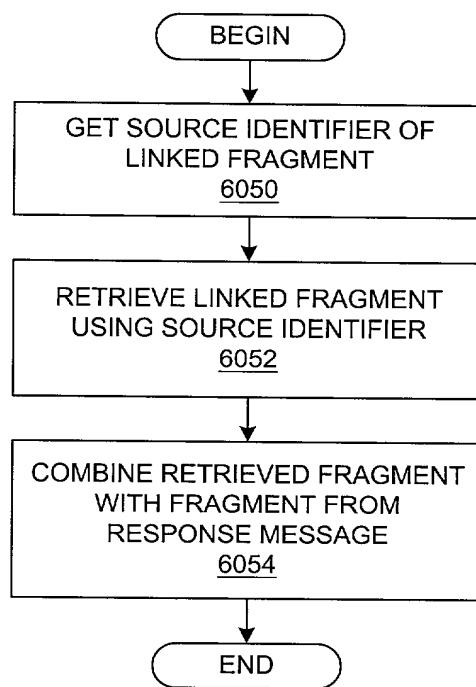


FIG. 6M

11/28

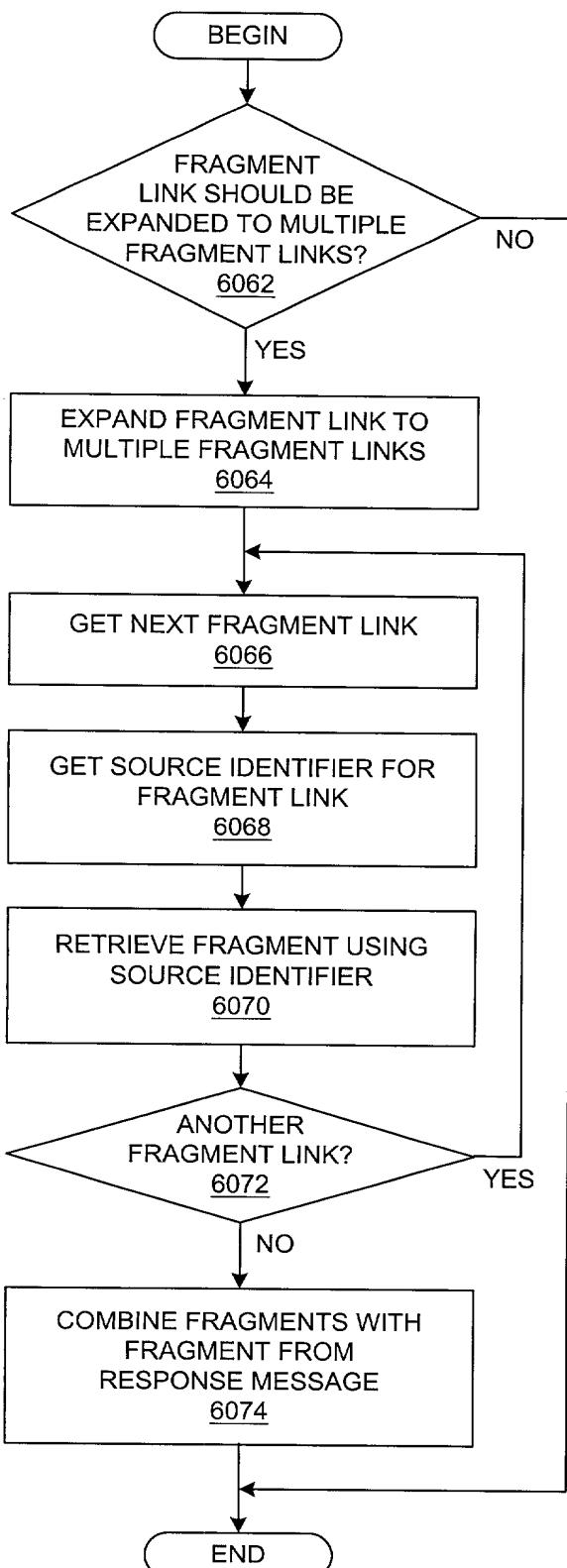


FIG. 6N

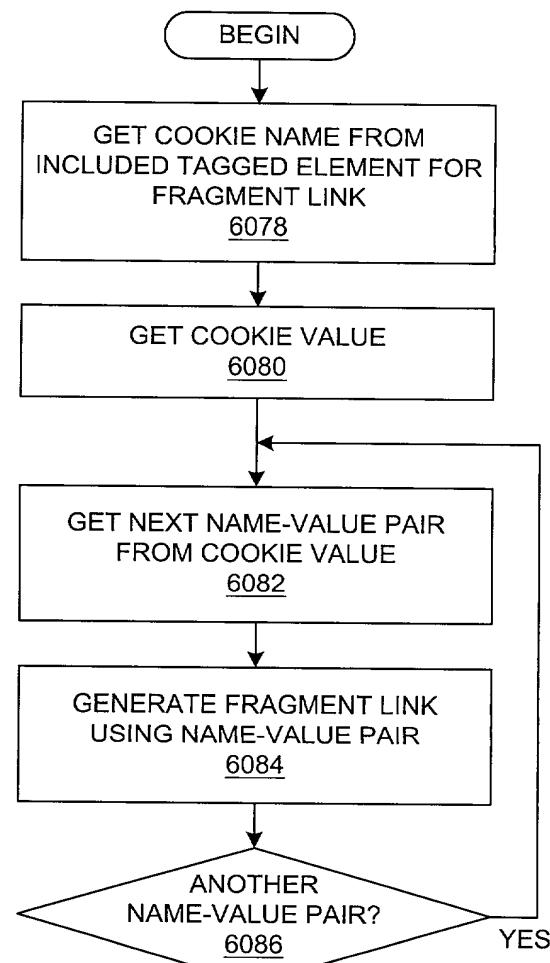


FIG. 6P

12/28

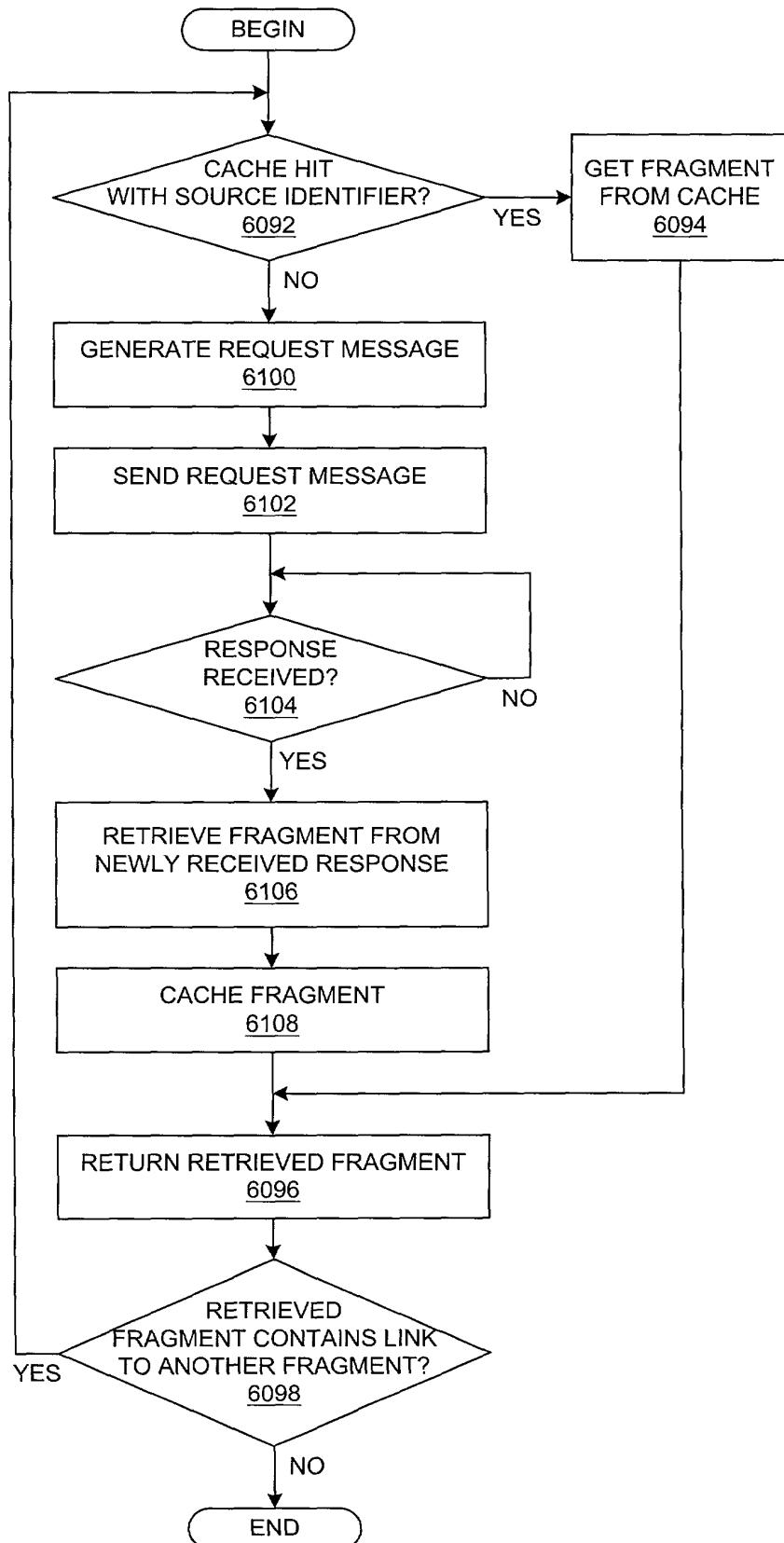


FIG. 6Q

13/28

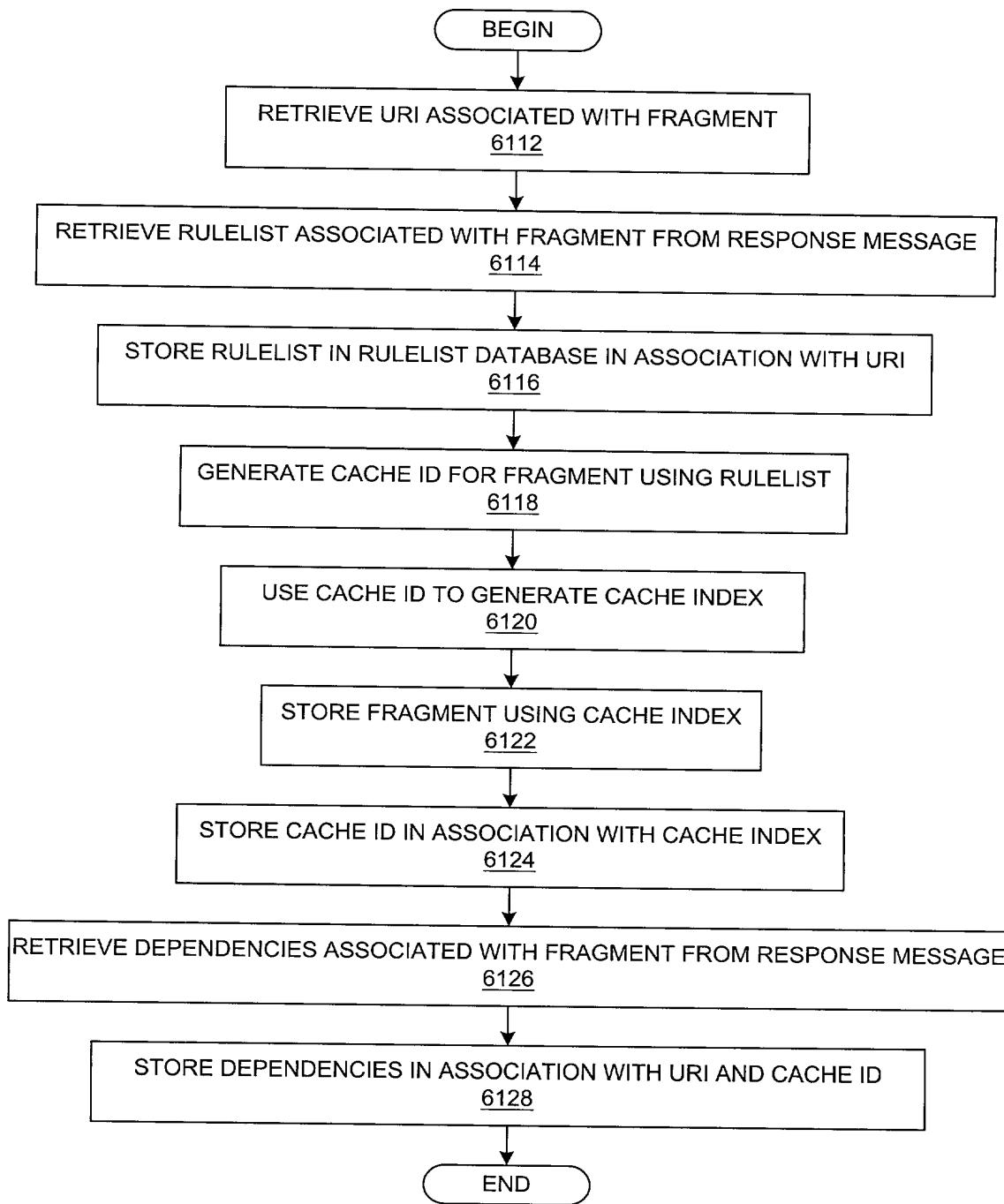
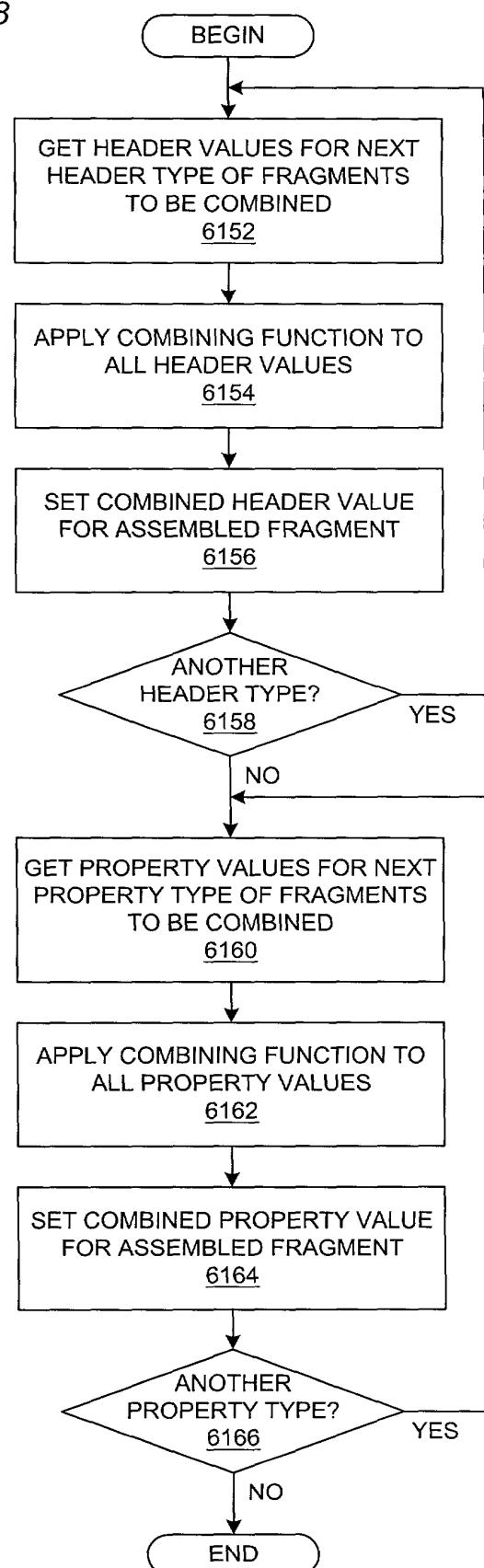
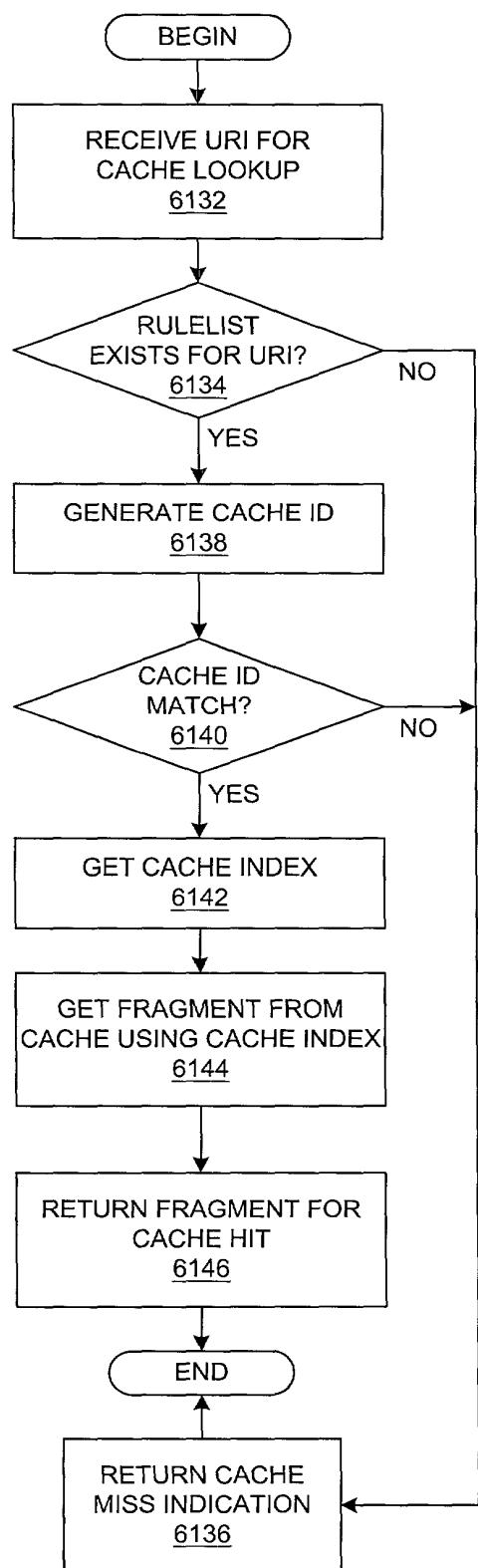


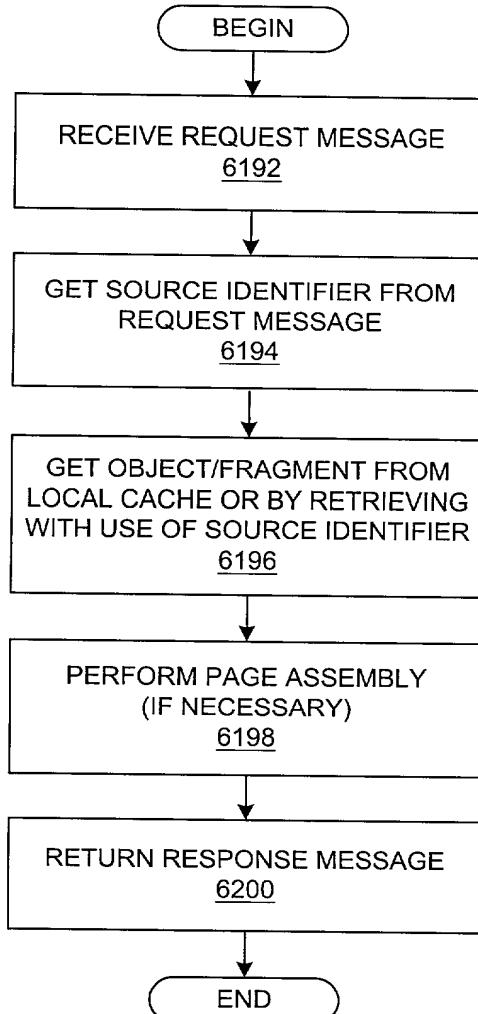
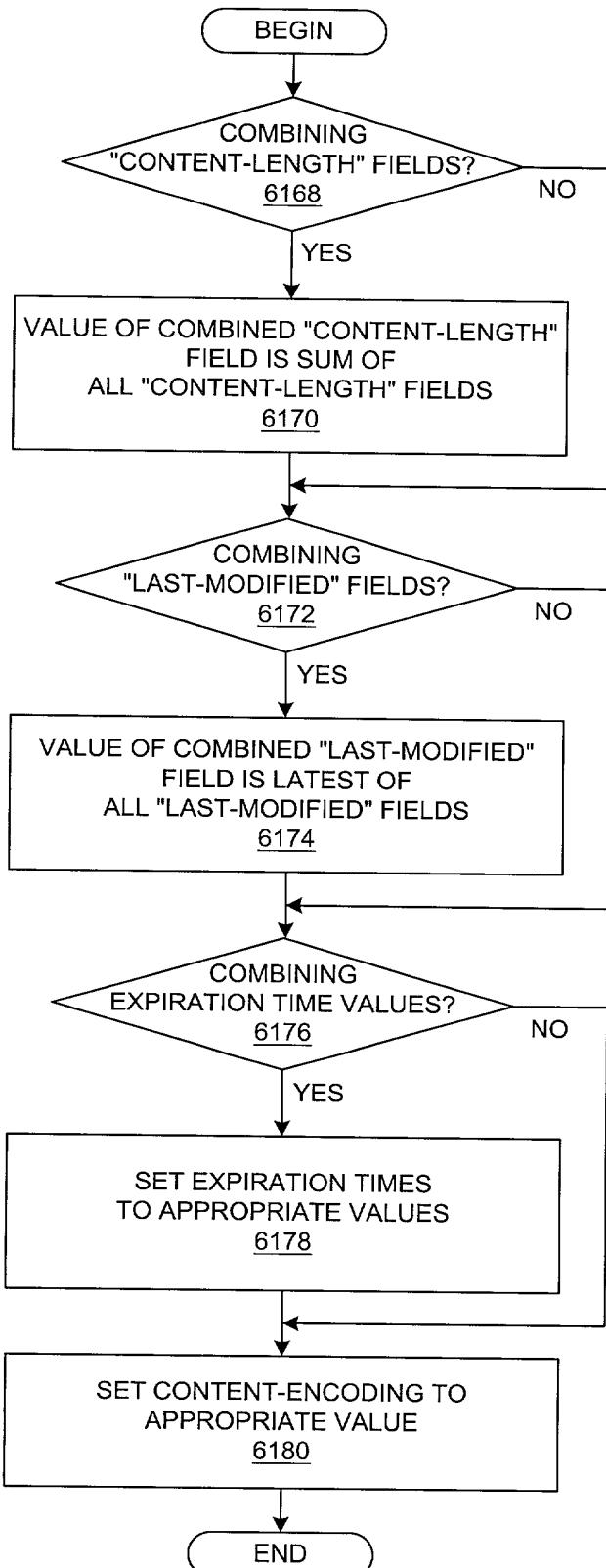
FIG. 6R

**Method and system for caching fragments
while avoiding parsing of pages that do not contain fragments**

14/28

**FIG. 6S****FIG. 6T**

15/28



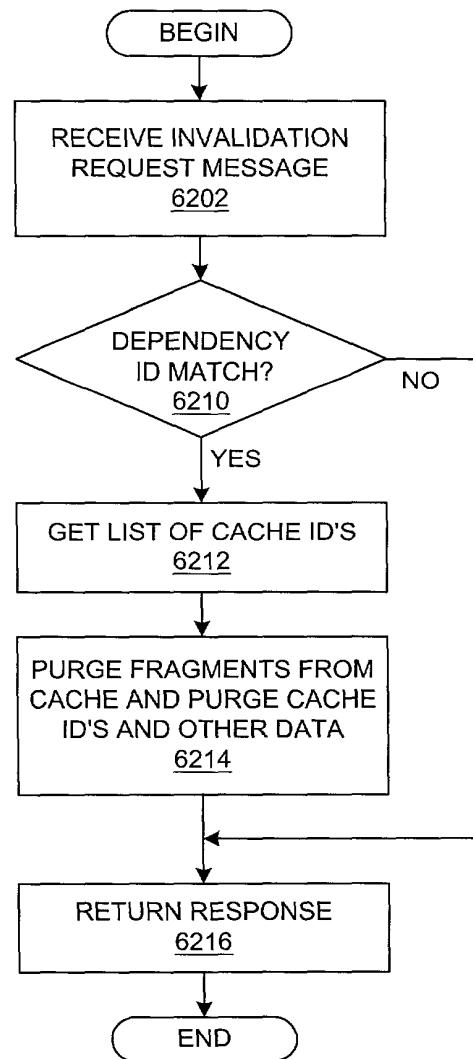


FIG. 6W

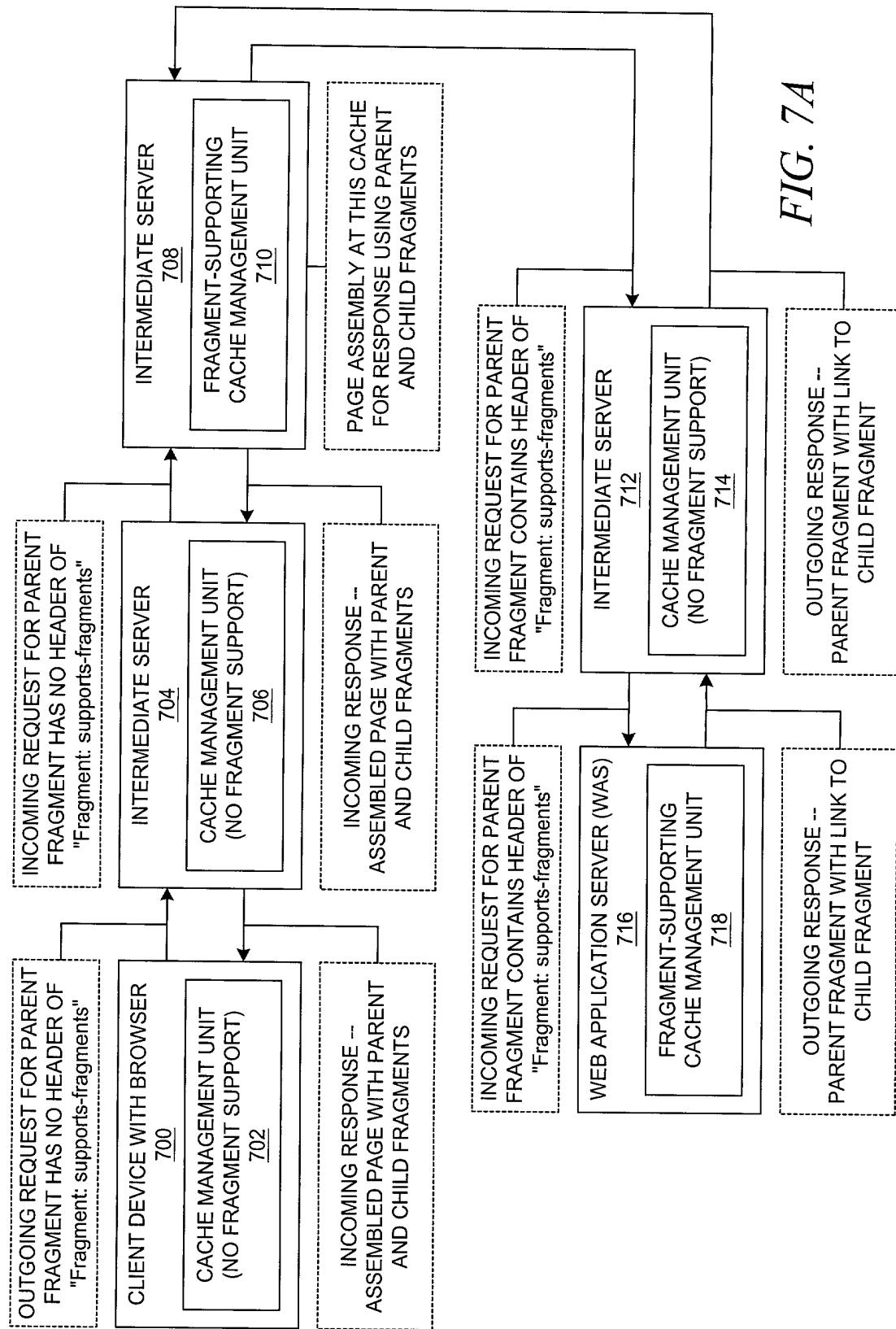


FIG. 7A

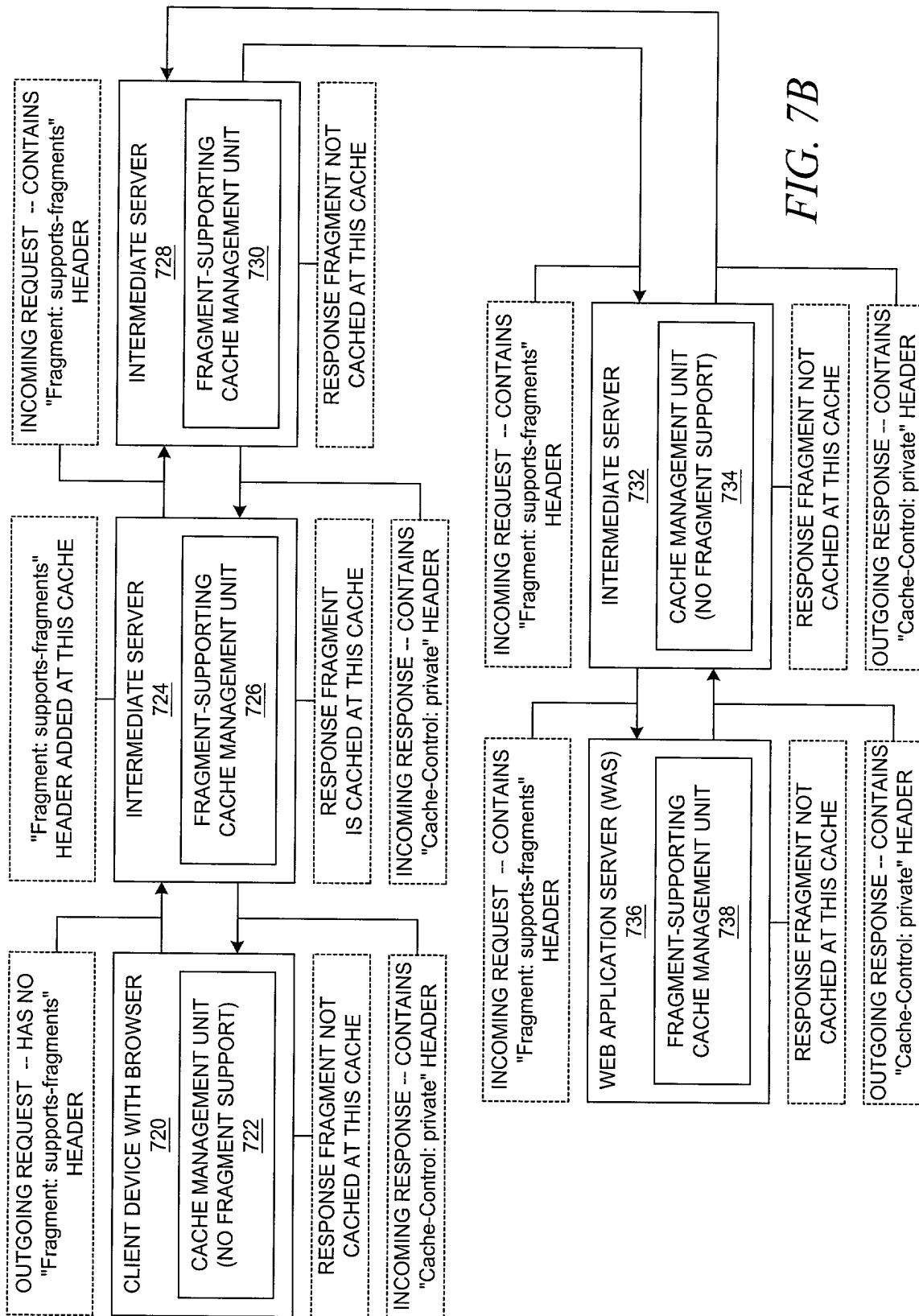


FIG. 7B

19/28

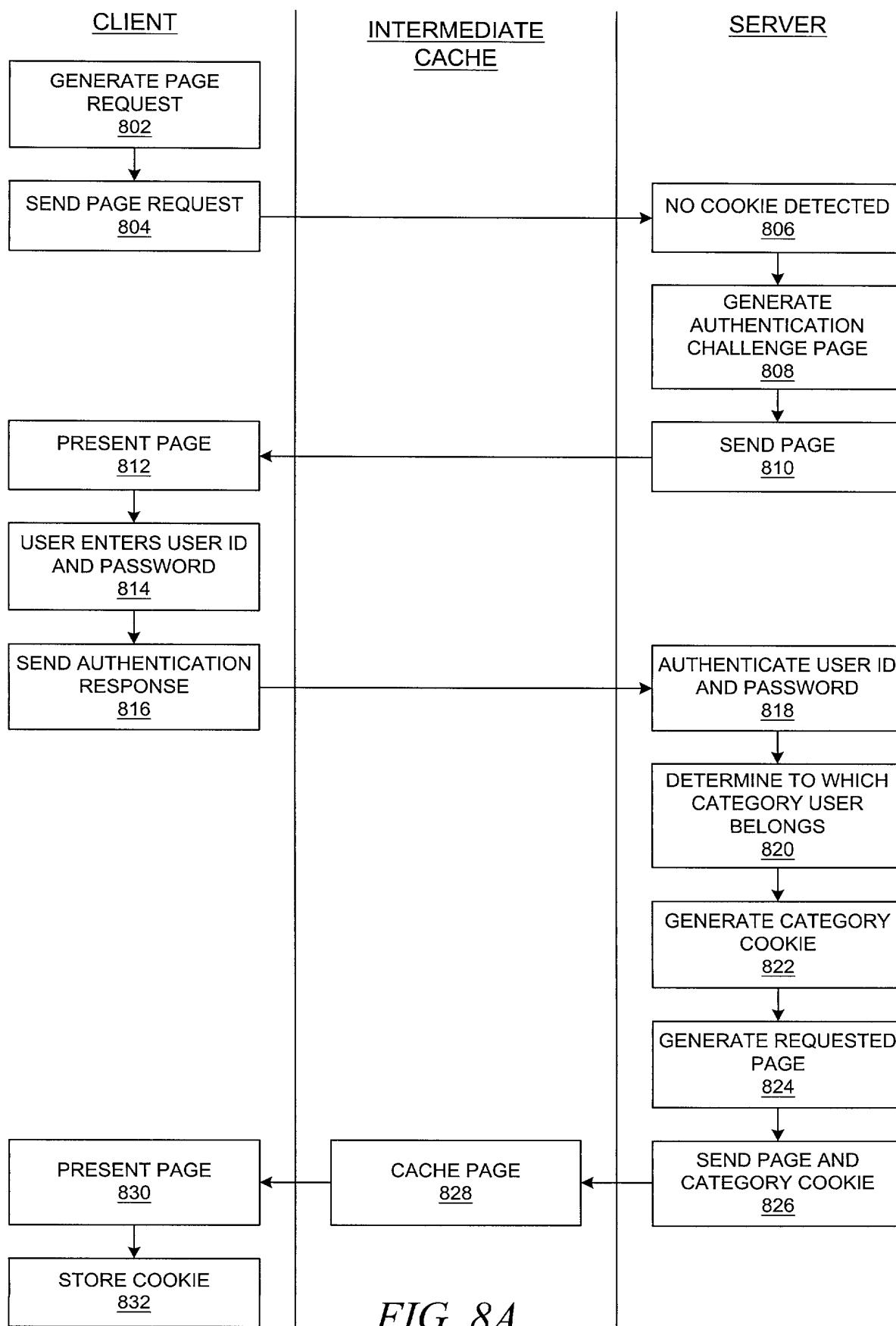


FIG. 8A

20/28

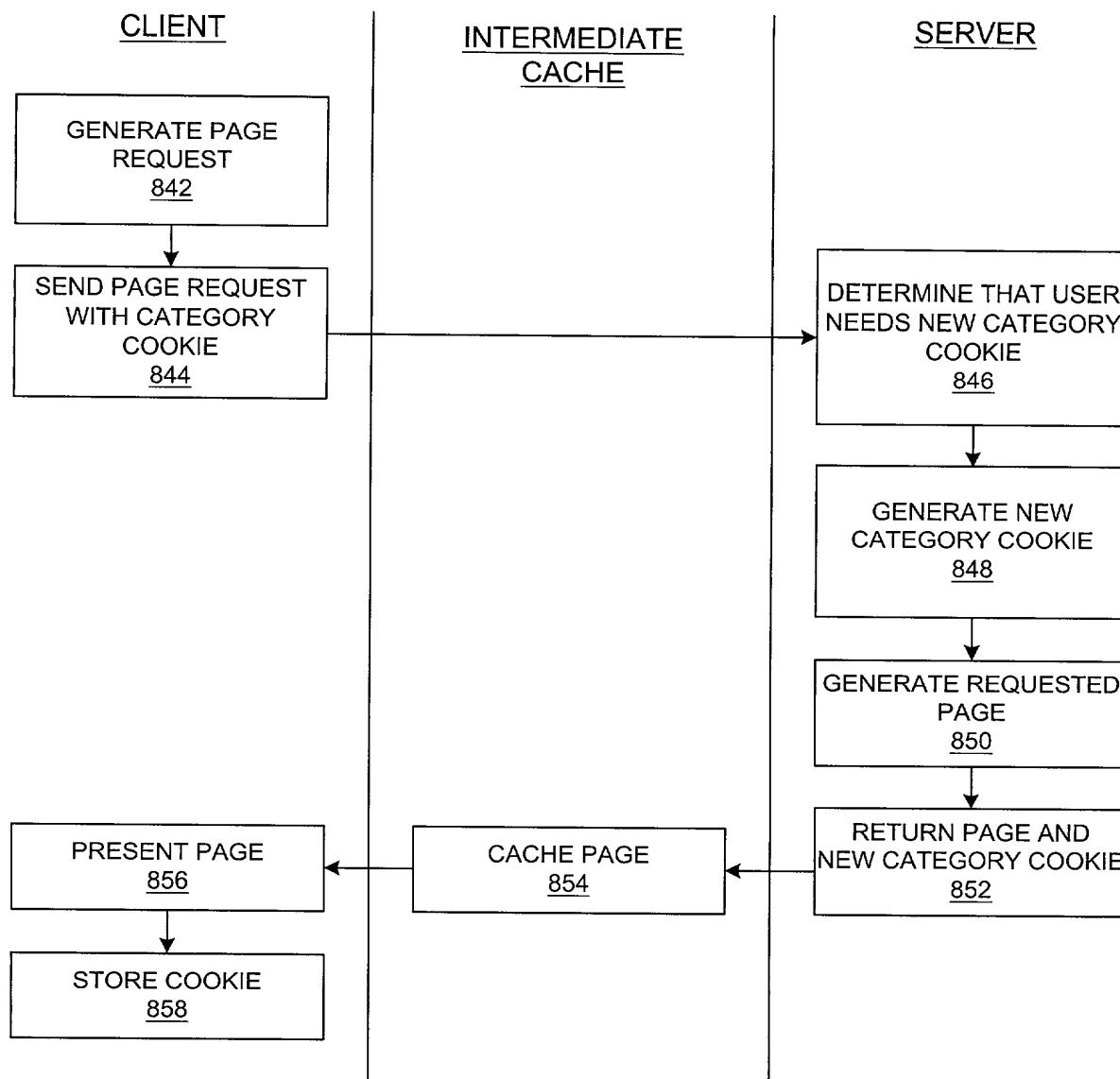


FIG. 8B

21/28

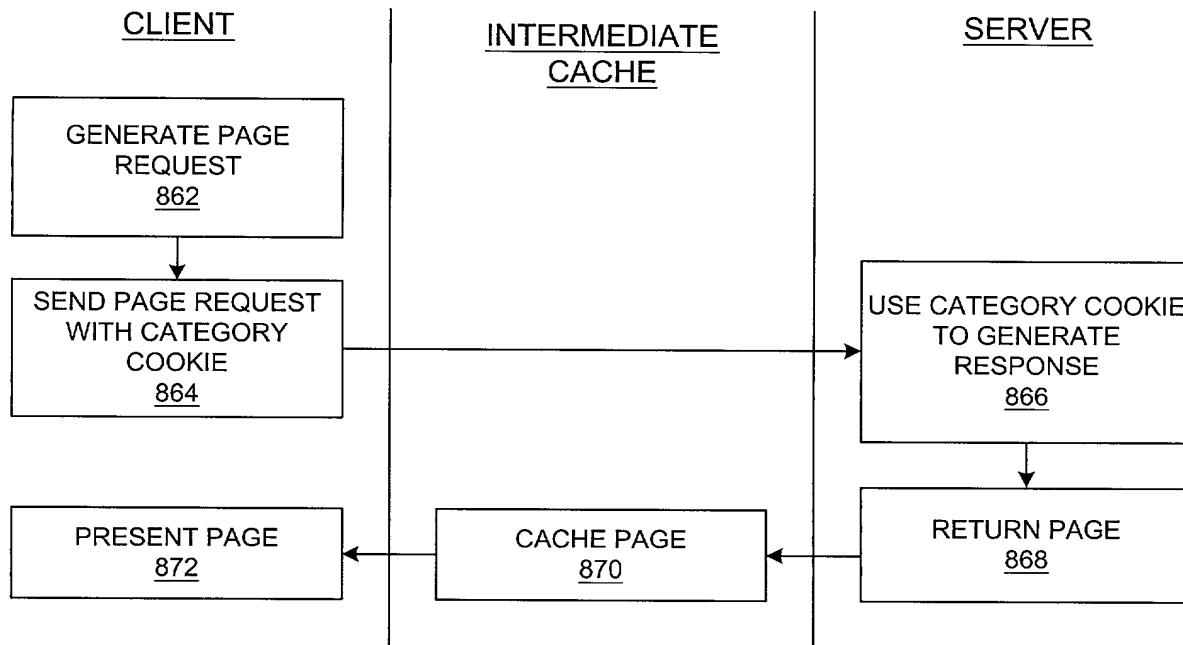


FIG. 8C

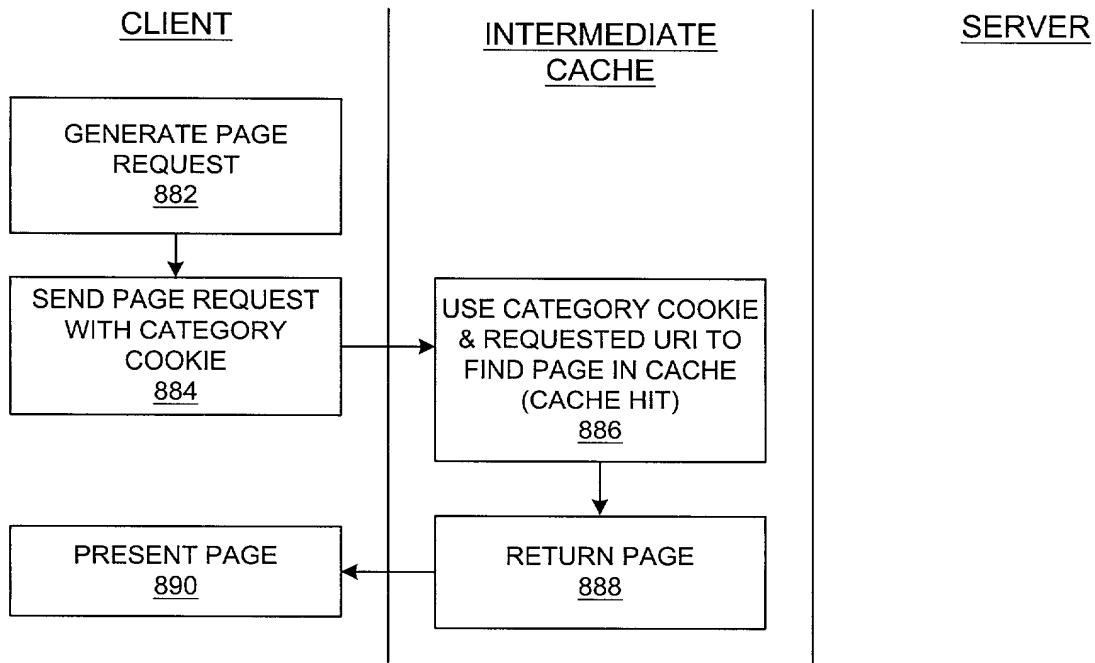


FIG. 8D

22/28

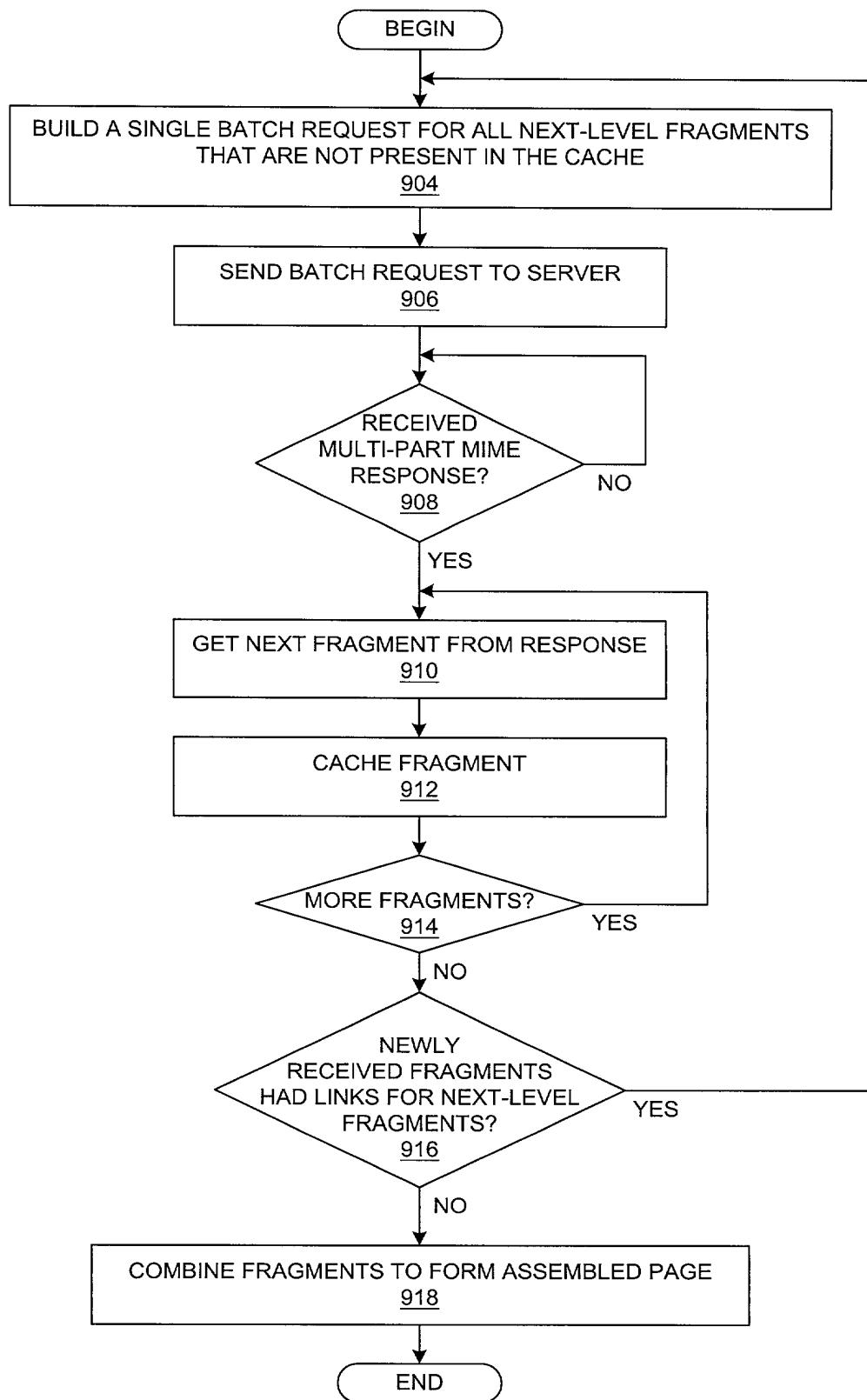


FIG. 9A

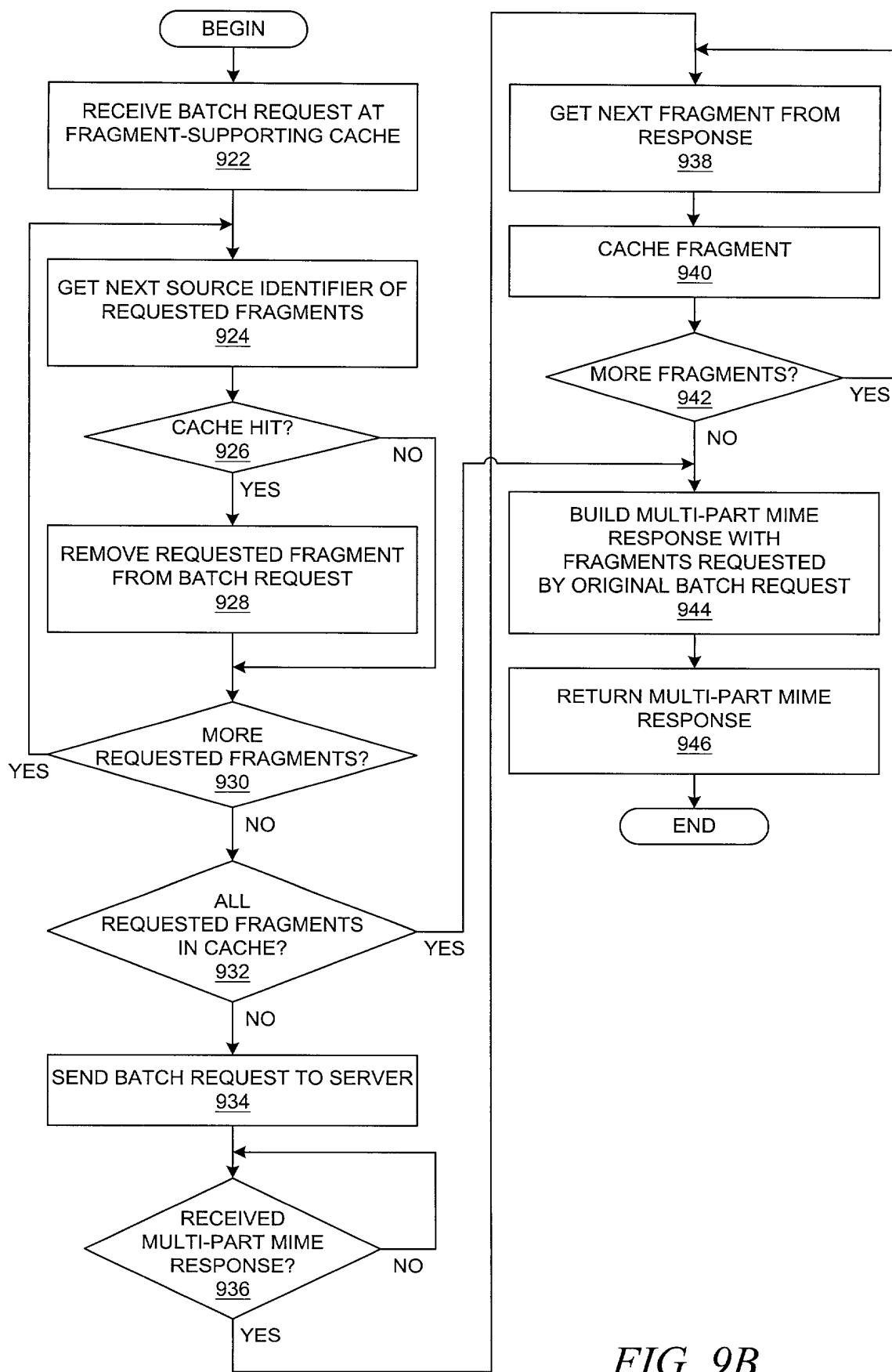


FIG. 9B

24/28

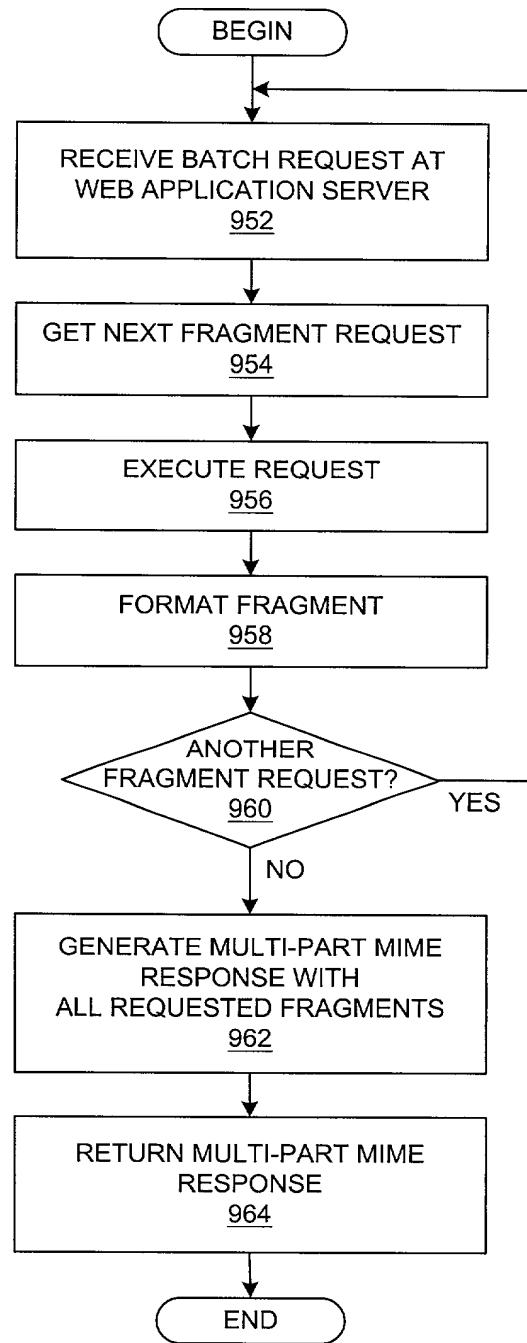


FIG. 9C

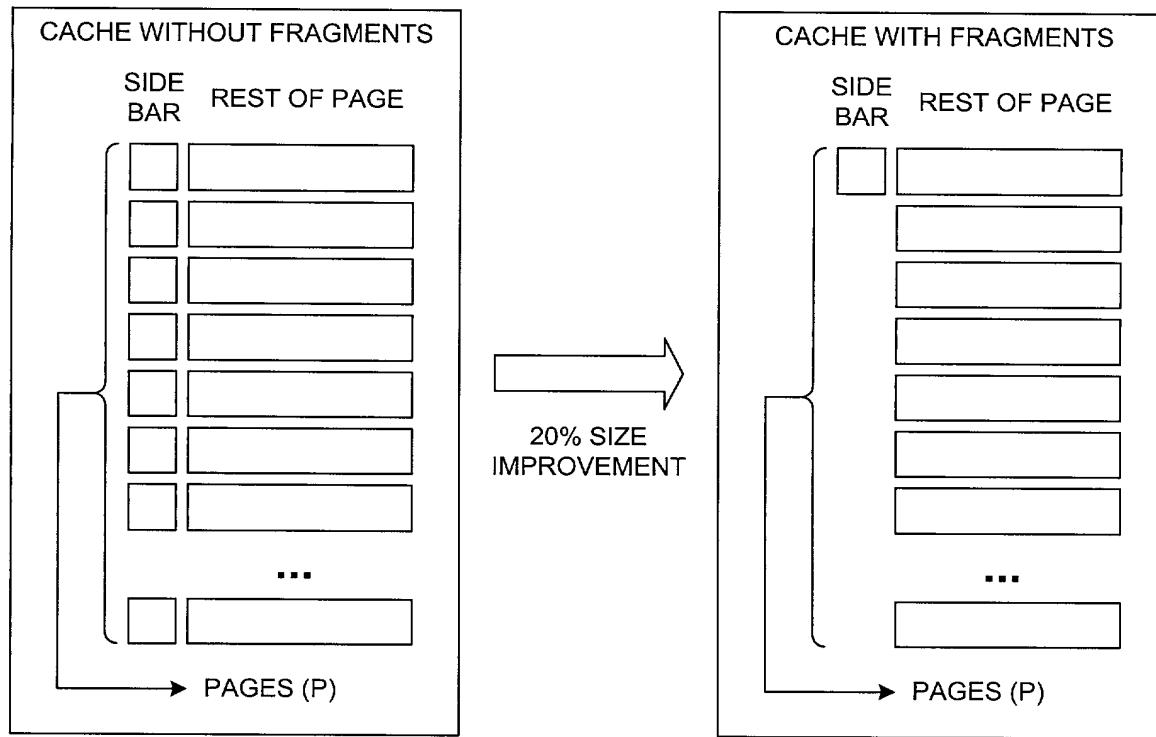


FIG. 10A

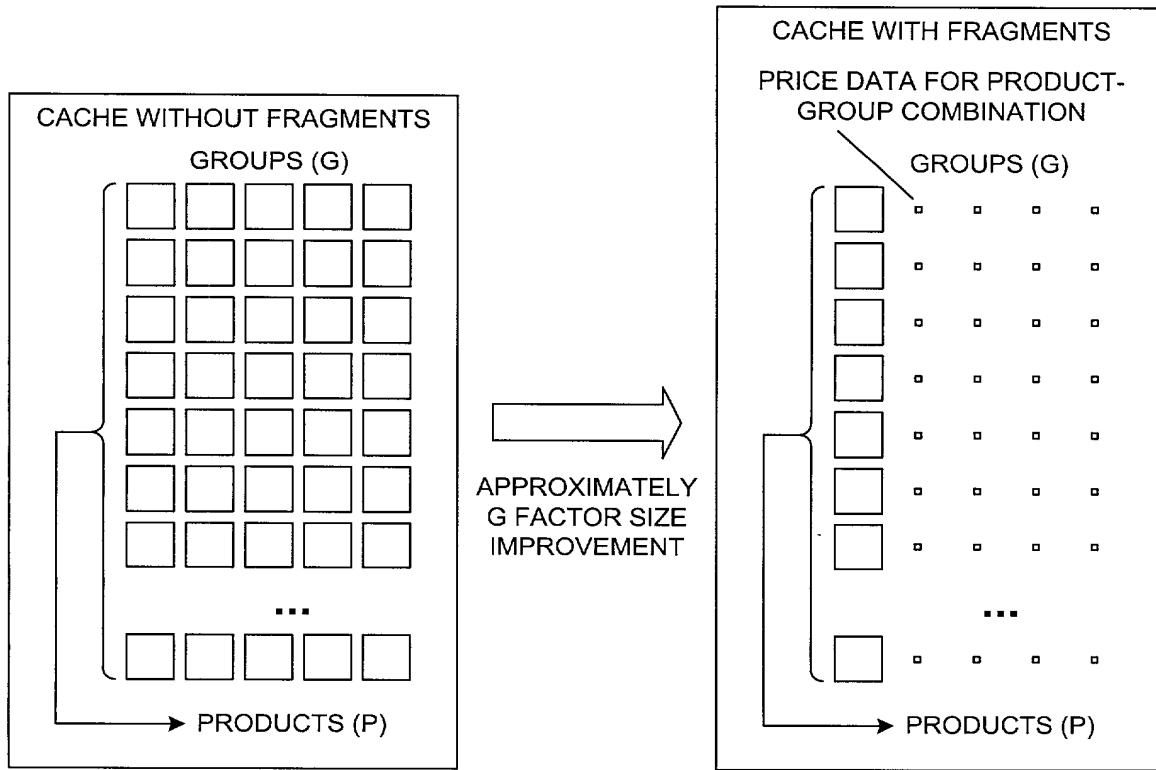


FIG. 10B

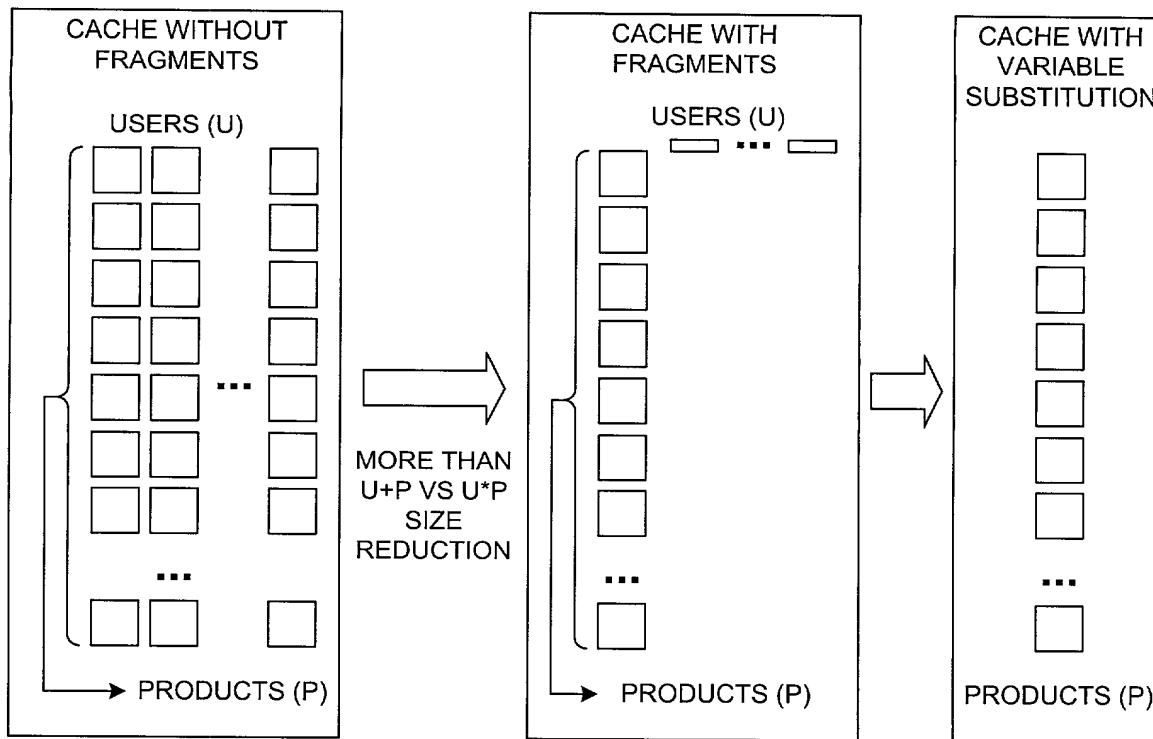


FIG. 10C

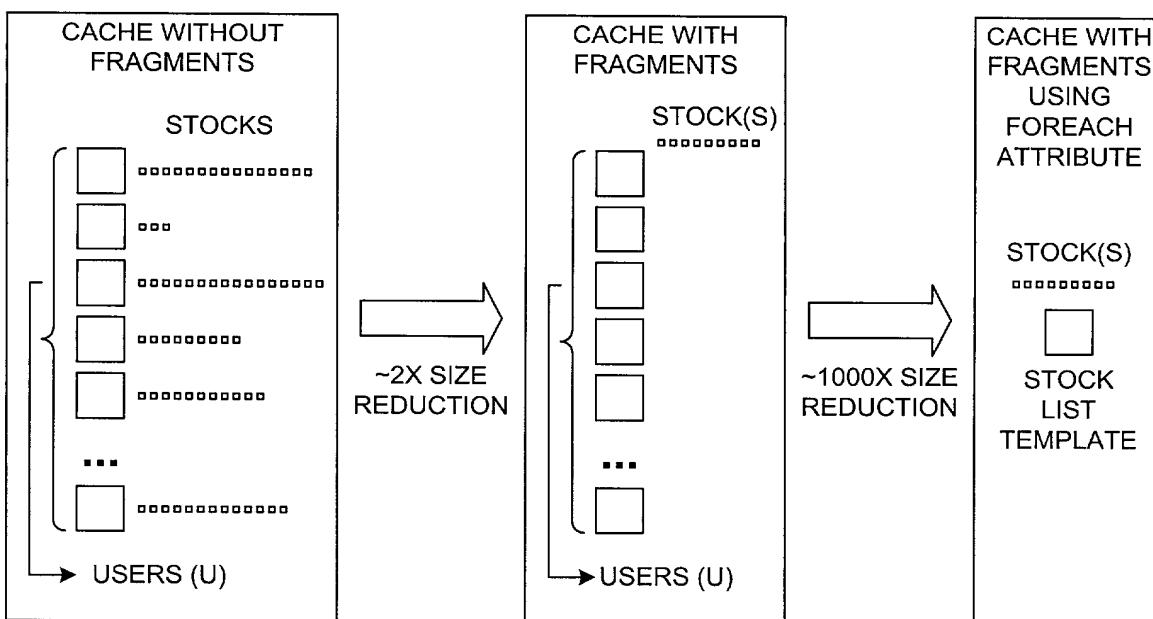
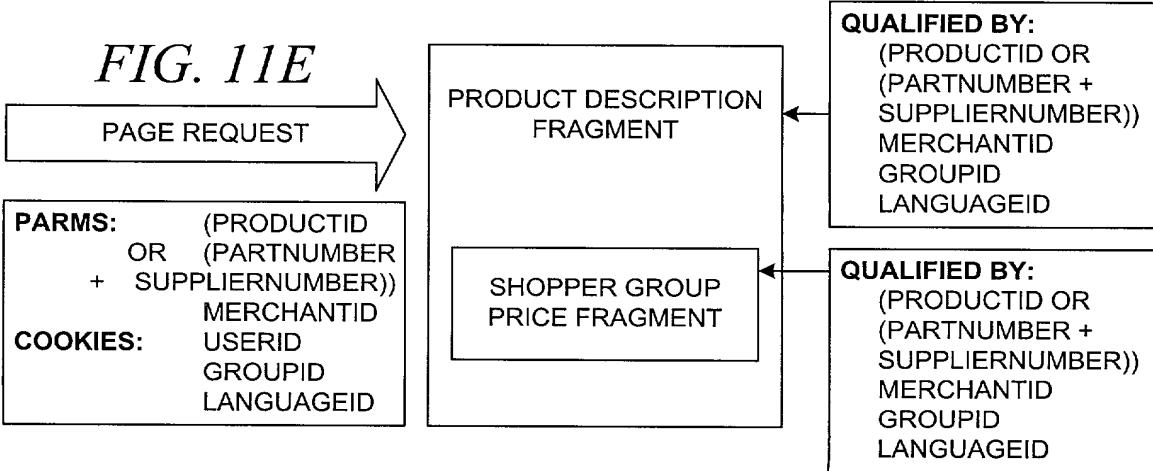
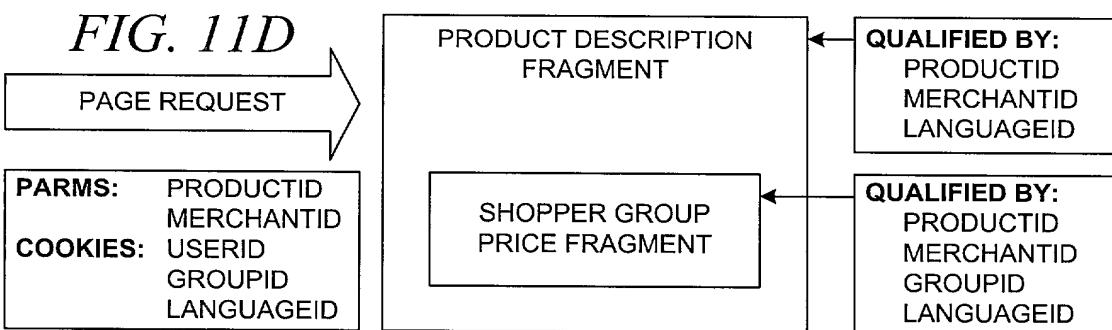
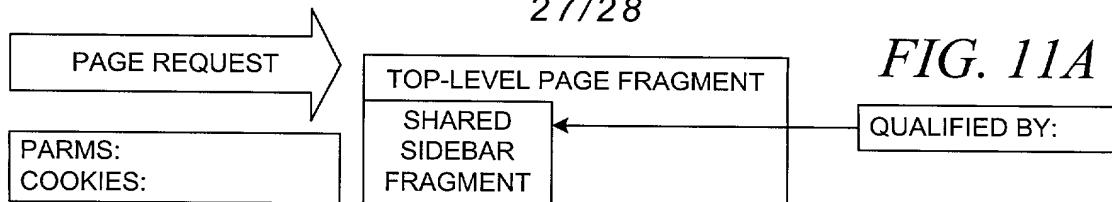


FIG. 10D

27/28



28/28

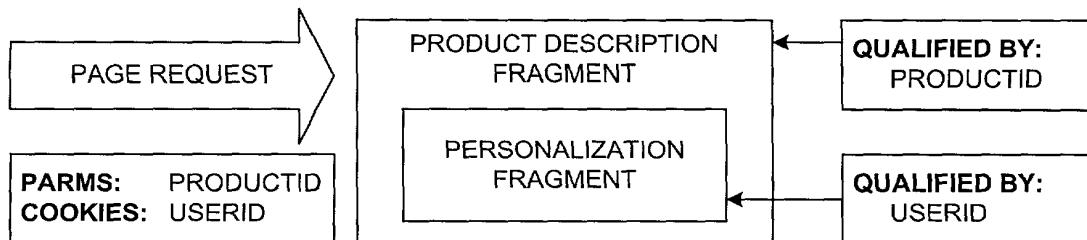


FIG. 11F

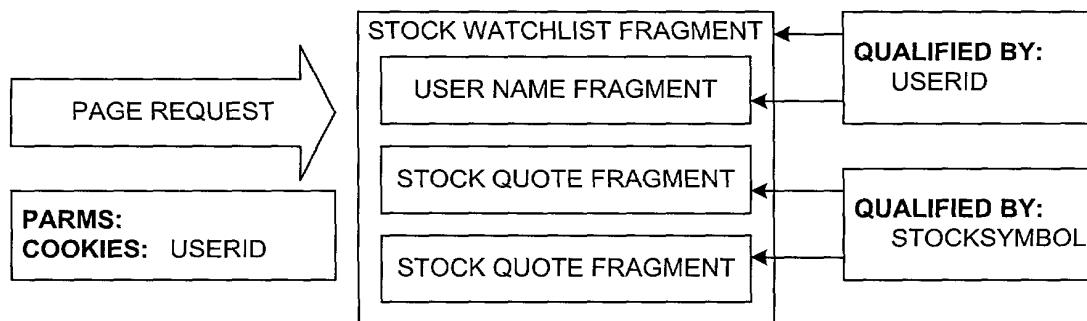


FIG. 11G

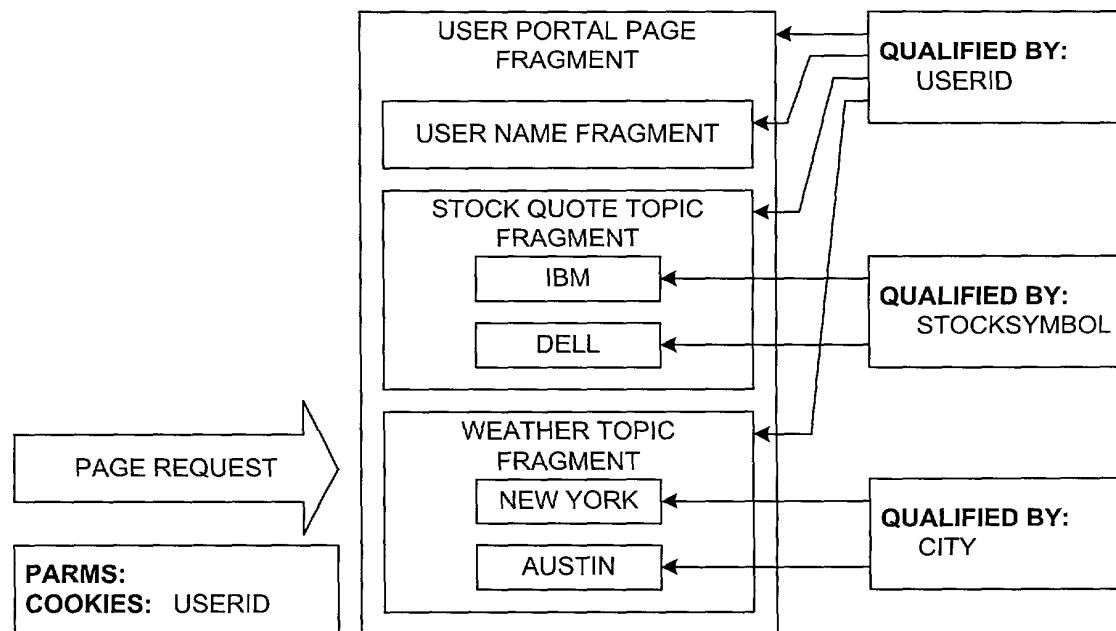


FIG. 11H